MEMORANDUM FOR: Assistant for Plans and Development, NPIC

NPIC/P&DS/P-6-994 1 September 1966

DDR-Dupe

SUBJECT:	Micro-Wave Drying	
	from Westover AFB, gave me the following particulars st for contractual assistance on electronic micro-wave drying ic processors:	25X1
and in th	The current capabilities of bulk processing at Westover as field are dryer limited (120'/minute processing vs. se drying). PSD has the same problem.	
	Micro-wave drying has been used outside the photographic some time for many drying applications.	
c. [is building micro-waye guides and at the	25X1
present t type film		25X1
	ng this dryer at is for color. The speed capa-	25X1
bility fo	or color was not known by but excessive speed or problem. Twenty-feet/minutexmore than adequate and	25X1
	believes that the drying speed for paper or film of should be around 100'/minute in $9\frac{1}{2}$ " widths.	25X1
đ. [is not interested in	25X1
	processors for recommaissance film, but	25X1
W	vill supply the micro-wave guide for such applications.	25X1
e.	has submitted a proposal to Westover	25X1
	gh-speed paper or film dryer using the micro-wave	25X1
technique prototype base and	e and components. This proposal is for for a dryer capable of 200'/minute on a "new low gamma" film 100'/minute on any B&W film or paper in widths up to en though color was not a specific requirement in this	25X1
proposal, prints or	sees no reason the dryer could not do color	25X1
	has the funds for this development and would assistance in getting a sole-source contract with H-F as possible.	25X1

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thoroughly evaluated.

2. DD/S&T) stated that since this procurement was unclassified, and their charter for contracting is limited to code-word	25X1
items, this contract should go through the Offices of Logistics. He felt	0.5
that this would still be faster than Westover's route through Also,	25X1
OL is currently contracting with and this might be handled as an add-	25X1
on. In either case (new contract or old one), we might be able to combine	
the development with a specific development of our own for our	25X1
purposes. Also, we would be in an excellent position to monitor the	
effort closely.	
	0.5
3. The P&DS current TPPD shows in FY+67 for a study and	25X1
in FY-68 for a developmental model of a color film/print dryer.	25X1
In discussions with Development Branch, has indicated that	25X1
they may want to make a separate dryer for film and one for paper if	
the study or separate studies so indicate. I understand	25X1
really wanted something off-the-shelf, if possible, and we just convinced	
him a study was necessary in spite of the urgency of his requirement.	
4. The capabilities and limitations of the electronic micro-wave	
drying technique should be thoroughly investigated to determine if a	_
study is required. also informed me that several companies	25X1
are looking into micro-wave techniques (including and	25X1
the potentials are great across the board however,	25X1
has been building successfully operating equipment for some time and are	
under sub-contract to	25X1
5is sending a copy of the proposal to P&DS and we	25×1
can review it in detail while communicating with the Office of Logistics	
regarding contract activities.	
6. suggested that one of our development people go up	25X1
to and have a look at their 35mm. prototype.	25X1
7. I realize that color, and especially problems of curl, is	
different in cut sheet or briefing board type prints than a continuous	
processor. However, could see no reason this technique	25X1
could not be applied. We do have print straighteners, and drying	
takes the long time period. Speed, of course, is not our problem, as	
previously stated. It may be possible to control emulsion layer drying	
by a series of micro-wave evaporative gates. On the other hand, since	
the device is relatively small, we may be able to move the gate over	
the film or paper instead of moving the material through the gate.	
8. I recommend that P&DS delay any procurement activity on a	
color film/paper dryer study (Project 10047) until this technique is	

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SUBJECT:	Micro-Wave	Drying	_						25X1
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